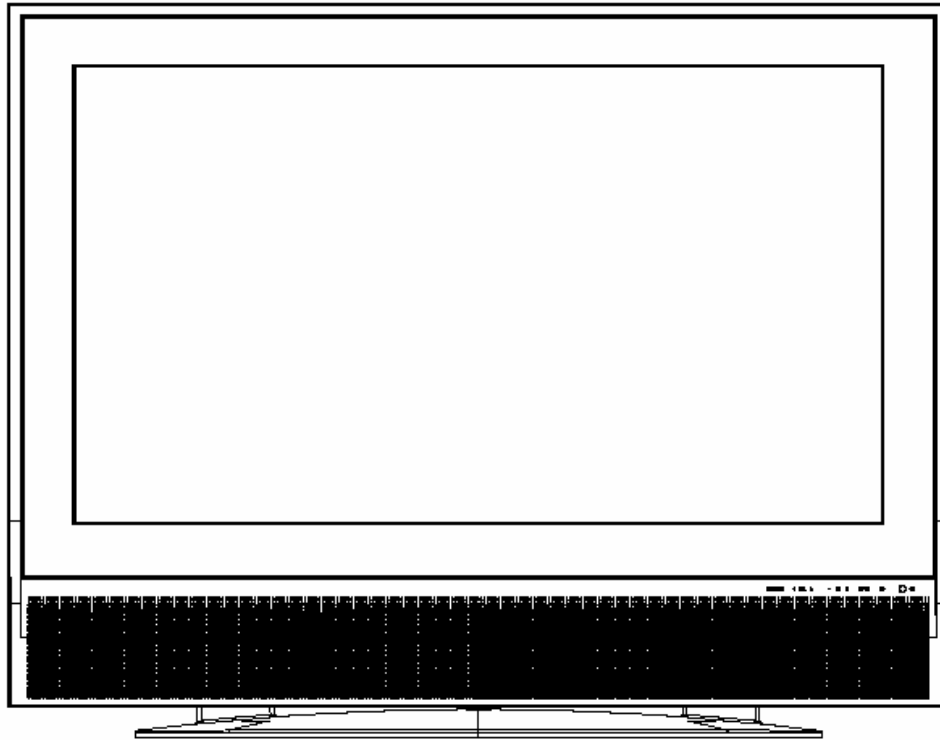


Service Manual



Model #: VIZIO L37HDTV10A

V, Inc

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Top Confidential

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Appendix

1. Main Board Circuit Diagram
2. Main Board PCB Layout
3. Assembly Explosion Drawing

Block Diagram

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FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus VINC Will not be held responsible for the product and its safety.

CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

Chapter 1 Features

1. Built in TV channel selector for TV viewing
2. Simultaneous display of PC and TV images
3. Connectable to PC's analog RGB port
4. Built in s-video, HDTV, composite video, HDMI ,TV and DTV out
5. Built in auto adjust function for automatic adjustment of screen display
6. Smoothing function enables display of smooth texts and graphics even if image with resolution lower than 1366x768 is magnified
7. Picture In Picture (PIP) function to show TV or VCR images
8. Power saving to reduce consumption power to less than 3W
9. On Screen Display: user can define display mode (i.e. color, brightness, contrast, sharpness), sound setting, PIP, TV channel program, aspect and gamma or reset all setting.

Chapter 2 Specification

1. LCD CHARACTERISTICS

Type: WXGA TFT LCD

Size: 37 inch

Display Size: 37.02 inches (940.3mm) diagonal

Outline Dimension: 877.0/878.0 mm (H) x 516.8 mm (V) x 55.5 (D) mm (Typ.)

Pixel Pitch: 0.200mm x 0.600mm x RGB

Pixel Format: 1366 horiz. By 768 vert. Pixels RGB strip arrangement

Contrast ratio: 600(Typ)

Luminance, White: 500 cd/m² (Typ)

Display Operating Mode: normally Black

Surface Treatment : Hard coating(3H), Anti-glare treatment of the front polarizer

Color Depth : 8-bit, 16.7 M colors

Viewing Angle (CR>10) : Viewing angle free (R/L 176(Typ.), U/D 176(Typ.))

Power Consumption : Total 125Watt (Typ.) (Logic=4.5W, Lamp=120W [IBL=6.0mA])

2. OPTICAL CHARACTERISTICS

Viewing Angle by Contrast Ratio :

Left: 88°typ.

Right: 88°typ.

Top: 88°typ.

Bottom: 88°typ.

3. SIGNAL (Refer to the Timing Chart)

3.1 Input Voltage Level: 90~240 Vac, 50/ 60 Hz

3.2 Input Signal :

3.2.1 RCA-type (Yellow) Composite Video Connector :

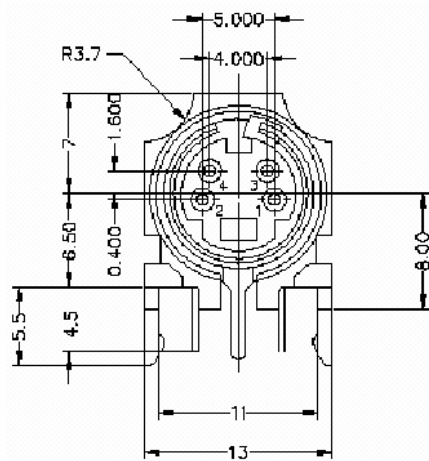
a. Signal Level Video (Y+C): Analog 1Vp-p/75

 Sync (H+V): 0.3V below Video (Y+C)

b. Frequency H: 15.734KHz V:60Hz (NTSC)

3.2.2 Four-Pin mini DIN S-Video Connector

a. Pin Assignment



- b. Signal Level Video (Y): Analog 0.1Vp-p/75
Video (C): Analog 0.286p-p/75
Sync (H+V): 0.3V below Video (Y)
- c. Frequency H: 15.734KHz V: 60Hz (NTSC)

3.2.3 F-Type TV RF connector

3.2.3.1 NTSC System:

- a. Signal Level: Analog 1Vp-p typical(45dB~90dB)
- b. System :NTSC
- c. Frequency: 55~801MHz (NTSC)

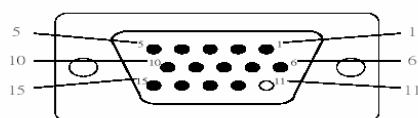
3.2.3.2 ATSC System

- a. IF-output level: 1Vp-p minimum
- b. System: ATSC
- c. Frequency: 57~863MHz(ATSC)

3.2.4 PC connector 15 pin male D-sub connector

- a. Pin Assignment :

Pin Number	Pin Function
1	Red video input
2	Green video input
3	Blue video input
4	Ground
5	Ground
6	Red video ground
7	Green video ground
8	Blue video ground
9	+5V
10	Ground
11	No connection
12	(SDA)
13	Horizontal sync (Composite sync)
14	Vertical sync
15	(SCL)



- b. Signal Level Video (R, G, B) : Analog 0.7Vp-p/75
Sync (H, V) : TTL level
- c. Sync Type TTL (Separate / Composite) or Sync. On-Green
- d. Sync polarity Positive or Negative
- e. Frequency : H: support to 30K~70KHz
V: support to 50~85Hz
Pixel Clock: support to 110MHz

3.2.5 HDMI Signal (Digital HD):

- a. Pin Assignment

3.2.6 Component signal (Analog HD1 and Analog HD2)

3.2.6.1 Analog HD1

- a. Frequency H: 15.734KHz V: 60Hz (NTSC-480i)
H: 31KHz V: 60Hz (NTSC-480p)
H: 45KHz V: 60Hz (NTSC-720p)
H: 33KHz V: 60Hz (NTSC-1080i)
- b. Signal level Y: 1Vp-p Pb: ± 0.350 Vp-p Pr: ± 0.350 Vp-p
- c. Impedance 75

3.2.6.2 Analog HD2

- a. Frequency H: 15.734KHz V: 60Hz (NTSC-480i)
H: 31KHz V: 60Hz (NTSC-480p)
H: 45KHz V: 60Hz (NTSC-720p)
H: 33KHz V: 60Hz (NTSC-1080i)
- b. Signal level Y: 1Vp-p Pb: ± 0.350 Vp-p Pr: ± 0.350 Vp-p
- c. Impedance 75

3.2.7 Audio Signal

- a. Signal Level 1Vrms
- b. Frequency Response 250Hz-20KHz

4. Input Connectors

RJ11, D-SUB15PIN ,mini jack(PC Audio in), HDMI CONNECT, RCAX2 (component), RCAX3 (AUDIO in), RCAX3 (composite), RCAX3 (AUDIO in), F CONNECTx2, S-Video

5. POWER SUPPLY

Power Consumption: 220W MAX

Power OFF: to less than 3W MAX

6. Speaker

Output 6Ω/10W (max) X2

7. ENVIRONMENT

7-1. Operating Temperature: 5°C ~35°C (Ambient)

7-2. Relative Humidity: Ta= 35 °C, 10~90%RH (Non-condensing)

7-3. Altitude: 0~40,000 feet (Non-Operating)

8. DIMENSIONS (Physical dimension)

Width: 959.9mm.

Depth: 311.0mm

Height: 748.4mm

9. WEIGHT (Physical weight)

a. Net: 25.9kgs

b. Gross: 33.5kg

9-1. MOUNTING PRECAUTIONS

- (1) You must mount a module using holes arranged in four corners or four sides.
- (2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- (3) Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to resist external force.
- (4) You should adopt radiation structure to satisfy the temperature specification.
- (5) Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
- (6) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment.
Do not touch the surface of polarizer for bare hand or greasy cloth. (Some cosmetics are detrimental to the polarizer.)
- (7) When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaked with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front / rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- (8) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (9) Do not open the case because inside circuits do not have sufficient strength.

9-2. OPERATING PRECAUTIONS

- (1) The spike noise causes the mis-operation of circuits. It should be lower than following voltage :
 $V = \pm 200\text{mV}$ (Over and under shoot voltage)
- (2) Response time depends on the temperature. (In lower temperature, it becomes longer.)
- (3) Brightness depends on the temperature. (In lower temperature, it becomes lower.)
And in lower temperature, response time (required time that brightness is stable after turned on) becomes longer.
- (4) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (5) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (6) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimized the interference.

9-3. HANDLING PRECAUTIONS FOR PROTECTION

- (1) The protection film is attached to the bezel with a small masking tape. When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- (2) When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of glue still on the bezel after the protection film is peeled off.
- (3) You can remove the glue easily. When the glue remains on the bezel surface or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.

Chapter 3 On Screen Display

Main unit button

Power

Input

CH ▲

CH ▼

VOL +

VOL -

MUTE / EXIT

MENU

TV Source

A. PICTURE ADJUST :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)
- g. Adjust the SHARPNESS (0~100)
- h. CLOSED CAPTION (OFF/CC1/CC2/CC3/CC4/TT1/TT2/TT3/TT4)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVINGROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

C. TV TUNER SETUP :

- a. SOUND (SAP/MONO/STEREO)
- b. TV/CABLE (TV/CABLE)
- c. CHANNEL SEARCH (RUN)
- d. SET CHANNEL

-
- e. SKIP CHANNEL (YES/NO)
 - D. PARENTAL CONTROL :
 - a. PARENT LOCK ENABLE (ON/OFF)
 - b. TV RATING
 - c. MOVIE RATING
 - d. ACCESS CODE EDIT
 - E. PIP SETUP :
 - a. STYLE (OFF/PIP/POP)
 - b. Source (AV1 、 AV2 、 AV3 、 ANALOGHD1 、 ANALOG HD2 、 DIGITAL HD RGB 、 DTV)
 - c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
 - d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT /MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)
 - F. SPECIAL FEATURES :
 - a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
 - b. SLEEP TIMER (OFF/30/60/90/120)
 - c. WIDE FORMAT (NORMAL/WIDE/ZOOM/PANORAMIC)
 - d. RESET ALL SETTING

PC Analog Mode

- A. PICTURE ADJUST :
 - a. AUTO PICTURE (Run)
 - b. Adjust the BACKLIGHT (0~100)
 - c. Adjust the BRIGHTNESS (0~100)
 - d. Adjust the CONTRAST (0~100)
 - e. Adjust the V-POSITION (0~100)
 - f. Adjust the H-SIZE (0~100)
 - g. Adjust the H-POSITION (0~100)
 - h. Adjust the FINETUNE (0~100)
- B. COLOR TEMP :
 - a. COLOR TEMP. (User, 5000K, 6500K,9300K)
 - b. RED (0~255)
 - c. GREEN (0~255)
 - d. BLUE (0~255)

C. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVING ROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

D. PIP SETUP :

- a. STYLE (OFF/PIP/POP)
- b. SOURCE (AV1 、 AV2 、 AV3 、 TV)
- c. SIZE (SMALL (20%)/MEDIUM(30%)/LARGE (40%))
- d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT
/MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)

E. SPECIAL FEATURES :

- a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (WIDE/ NORMAL)
- d. RESET ALL SETTING

DIGITAL HD MODE

A. PICTURE :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)
- g. Adjust the SHARPNESS (0~100)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)

-
- f. REVERB (OFF, CONCERT, LIVING ROOM, HALL, ARENA)
 - g. MUTE (ON/OFF)
 - h. SPEAKERS (ON/OFF)
 - i. AUDIO SOURCE(DIGITAL HD/DTV)
- C. PARENTAL CONTROL :
- a. PARENT LOCK ENABLE (ON/OFF)
 - b. TV RATING
 - c. MOVIE RATING
 - d. ACCESS CODE EDIT
- D. PIP SETUP :
- a. STYLE (OFF/PIP/POP)
 - b. SOURCE (AV1 、 AV2 、 AV3 、 TV)
 - c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
 - d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT
/MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)
- E. SPECIAL FEATURES :
- a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
 - b. SLEEP TIMER (OFF/30/60/90/120)
 - c. WIDE FORMAT (NORMAL/WIDE/ZOOM)
 - d. RESET ALL SETTING

Video Sources :

AV1 、 AV2 、 AV3 、 ANALOG HD1 、 ANALOG HD2

A. PICTURE :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)
- g. Adjust the SHARPNESS (0~100)
- h. CLOSED CAPTION (OFF/CC1/CC2/CC3/CC4/TT1/TT2/TT3/TT4)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVING ROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

C. PARENTAL CONTROL :

- a. PARENT LOCK ENABLE (ON/OFF)
- b. TV RATING
- c. MOVIE RATING
- d. ACCESS CODE EDIT

D. PIP SETUP :

- a. STYLE (OFF/PIP/POP)
- b. SOURCE (AV2 、 AV3 、 ANALOGHD1 、 ANALOG HD2 、 DIGITAL HD 、 RGB 、 TV)
- c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))
- d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT /MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)

E. SPECIAL FEATURES :

- a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (NORMAL/WIDE/ZOOM/PANORAMIC)
- d. RESET ALL SETTING

DTV Sources :

A. PICTURE :

- a. PICTURE MODE (USER/ VIVID1 /VIVID2 / VIVID3)
- b. Adjust the BACKLIGHT (0~100)
- c. Adjust the BRIGHTNESS (0~100)
- d. Adjust the CONTRAST (0~100)
- e. Adjust the COLOR (saturation)(0~100)
- f. Adjust the TINT (hue) (0~100)

g. Adjust the SHARPNESS (0~100)

B. AUDIO ADJUST :

- a. VOLUME (0~100)
- b. BASS (0~100)
- c. TREBLE (0~100)
- d. BALANCE (0~100)
- e. SURROUND (ON/OFF)
- f. REVERB (OFF, CONCERT, LIVING ROOM, HALL, ARENA)
- g. MUTE (ON/OFF)
- h. SPEAKERS (ON/OFF)

C.DTV OSD

a. DTV TUNER SETUP

1. TIME ZONE:

- α. HAWALL
- β. EASTTERN TIME
- γ. INDIANA
- δ. CENTRAL TIME
- ε. MOUNTAIN TIME
- ζ. ARIZONA
- η. PACIFIC TIME
- θ. ALASKA

2. AUTO SCAN

3. MANUAL SCAN PRESS<OK>

(1) ADD-ON MODE

(2) RANGE MODE

α. FORM CHANNEL(2~69)

β. TO CHANNEL(2~69)

4. CHANNEL SKIP PRESS<OK>

b. CLOSED CAPTION:

1. ANALOG COLOSED CAPTION

α.OFF

β.CC1

γ.CC2

δ.CC3

ε.CC4

2. DIGITAL COLOSED CAPTION

α.OFF

β.SERVICE1

γ.SERVICE2

δ.SERVICE3

ε.SERVICE4.

ζ.SERVICE5

η.SERVICE6

3. DIGITAL CAPTION STYLE PRESS<OK>

(1) AS BROADCASTER

(2)CUSTOM

FONT SIZE

α .LARGE

β .SMALL

γ .MEDIUM

FONT COLOR

α .BLACK

β .WHITE

γ .GREEN

δ .BLUE

ε .RED

ξ .CYAN

η .YELLOW

θ .MAGENTA

FONT OPACITY

α .SOLID

β .TRANSLUCENT

γ .TRANSPARENT

BLACKGROUND COLOR

α .BLACK

β .WHITE

γ .GREEN

δ .BLUE

ε .RED

ξ .CYAN

η .YELLOW

θ .MAGENTA

BACKGROUND OPACITY

α .SOLID

β .TRANSLUCENT

γ .TRANSPARENT

WINDOW COLOR

α .BLACK

β .WHITE

γ .GREEN

δ .BLUE

ε .RED

ξ .CYAN

η .YELLOW

θ .MAGENTA

WINDOW OPACITY

α .SOLID

β .TRANSLUCENT

γ .TRANSPARENT

c.PARENTAL CONTROL

PASSWORD PRESS<OK>

1.0000

2.CHANNEL BLOCK PRESS<OK>

D. PARENTAL CONTROL :

a. PARENT LOCK ENABLE (ON/OFF)

b. TV RATING

c. MOVIE RATING

d. ACCESS CODE EDIT

E. PIP SETUP :

a. STYLE (OFF/PIP/POP)

b. SOURCE (AV1 、 AV2 、 AV3 、 TV)

c. SIZE (SMALL (20%)/MEDIUM (30%)/LARGE (40%))

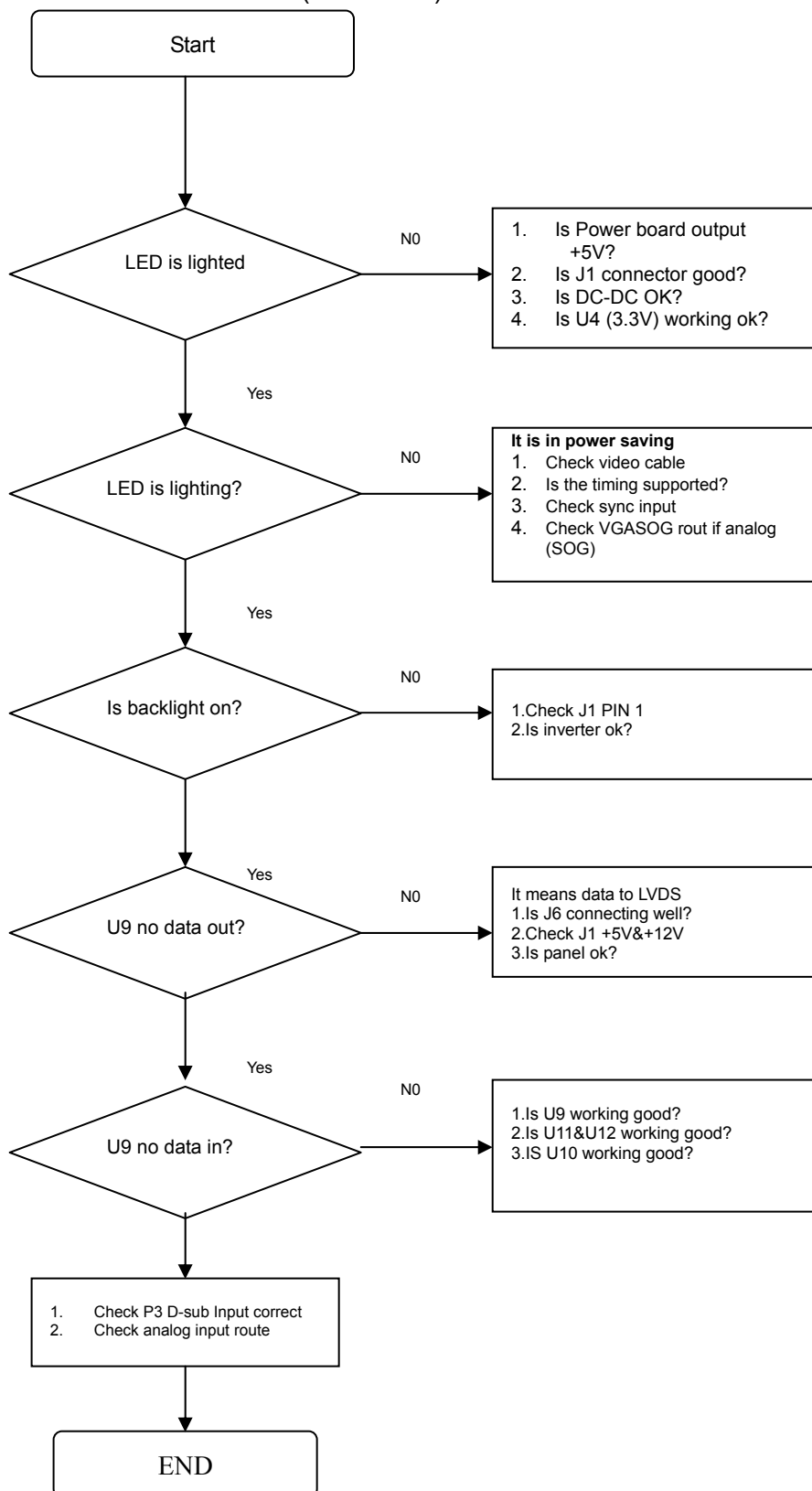
d. POSITION (TOP LEFT/TOP CENTER/TOP RIGHT/MIDDLE LEFT
/MIDDLE RIGHT/BOTTOM LEFT/BOTTOM CENTER/BOTTOM RIGHT)

F. SPECIAL FEATURES :

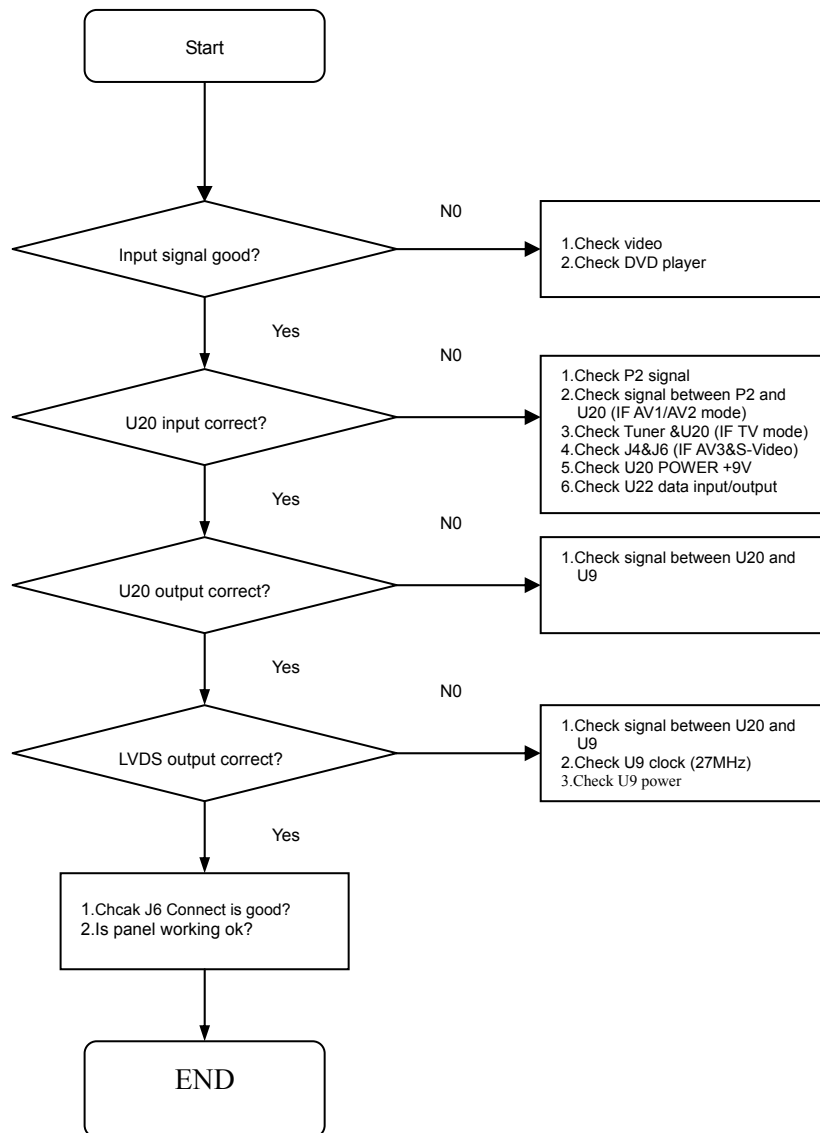
- a. LANGUAGE (ENGLISH/FRANCE/SPANISH)
- b. SLEEP TIMER (OFF/30/60/90/120)
- c. WIDE FORMAT (NORMAL/WIDE)
- d. RESET ALL SETTING

Chapter 10 Trouble shooting

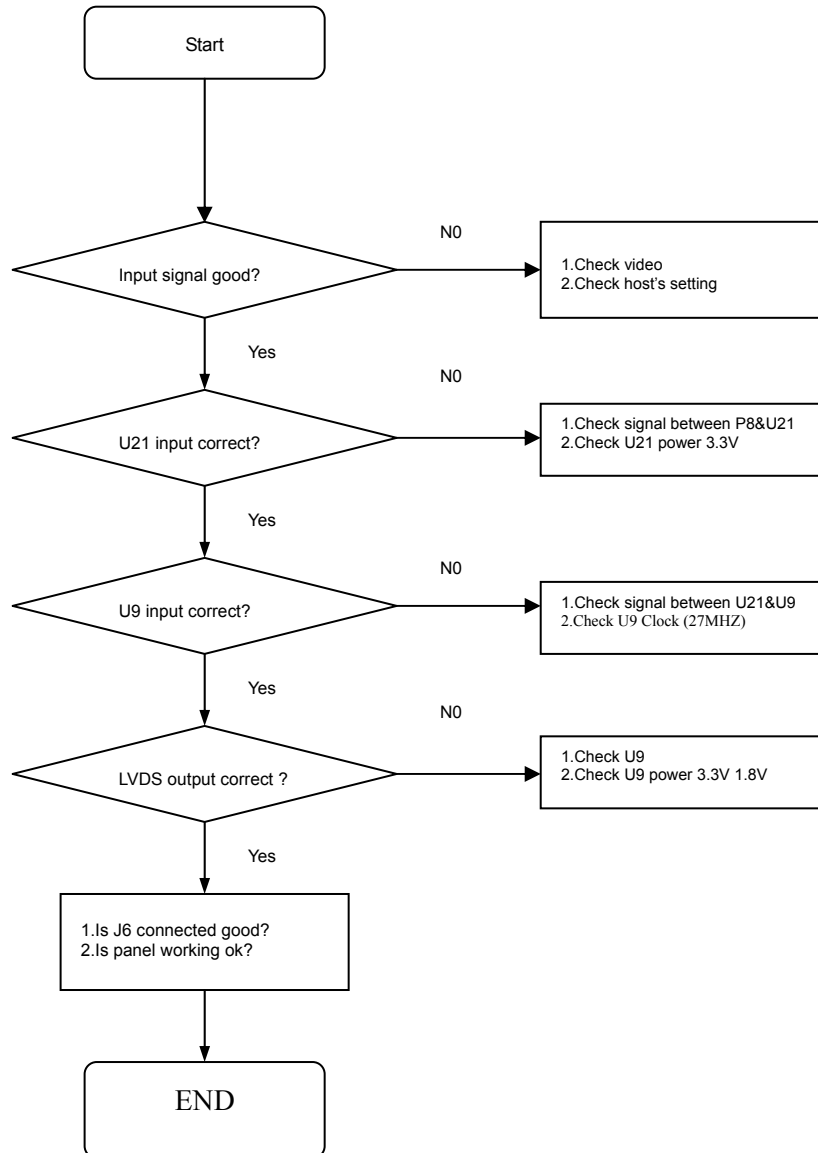
MONITOR DISPLAY NOTHING (PC MODE)



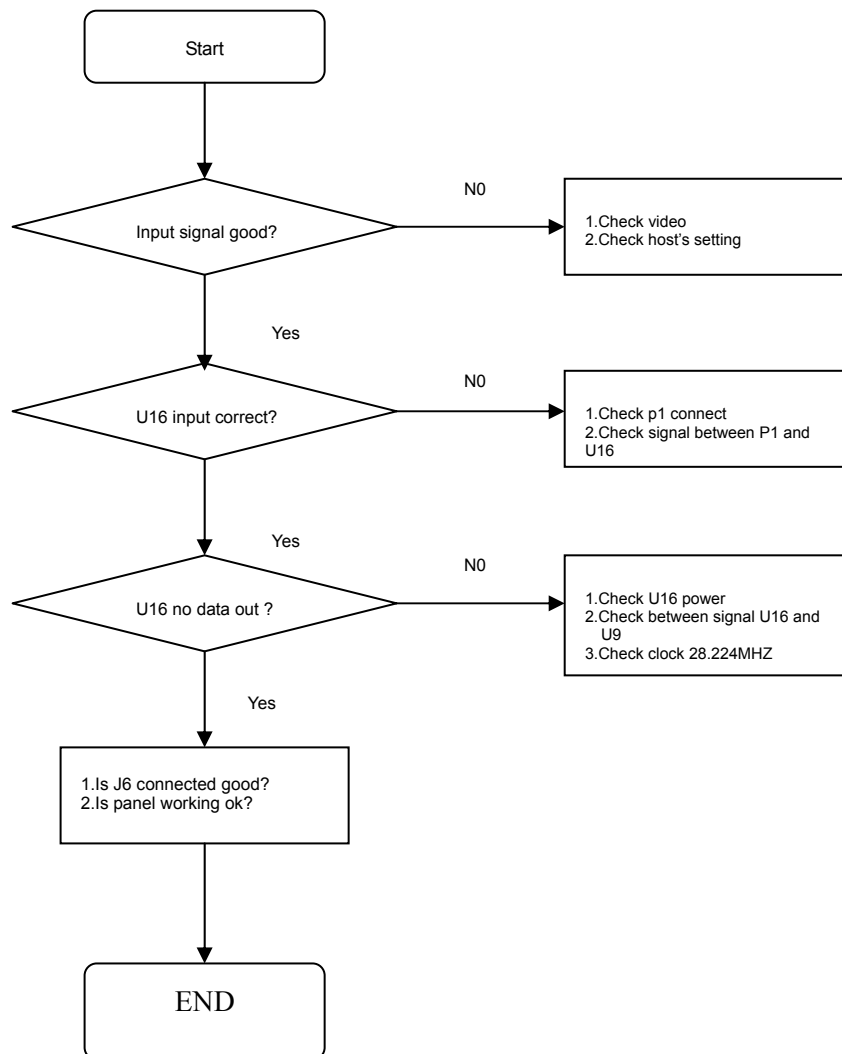
(TV, COMPOSITE VIDEO1, 2, 3, S-VIDEO) IS NOT DISPLAY CORRECTLY



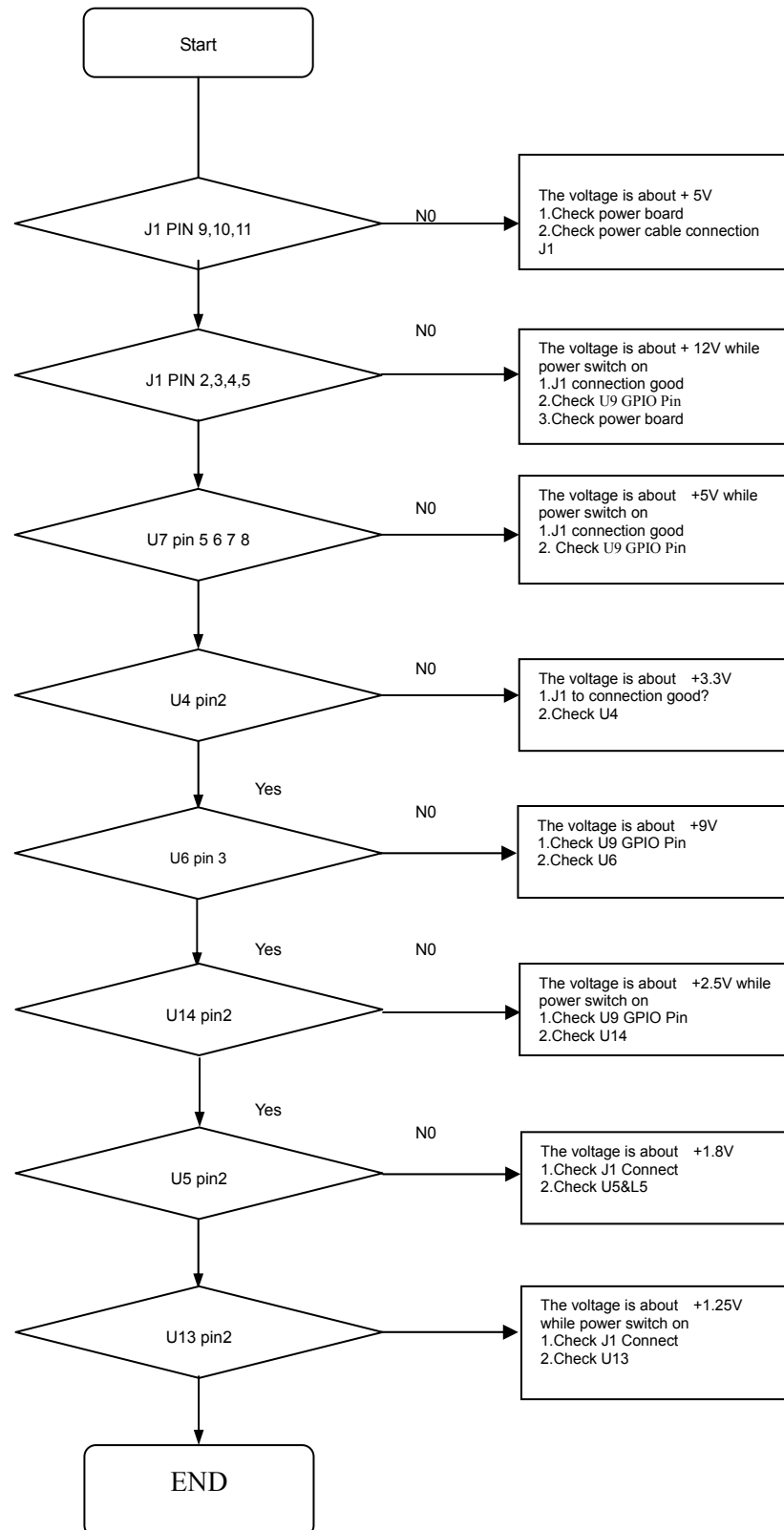
(COMPONENT1, 2) IS NOT DISPLAY CORRECTLY



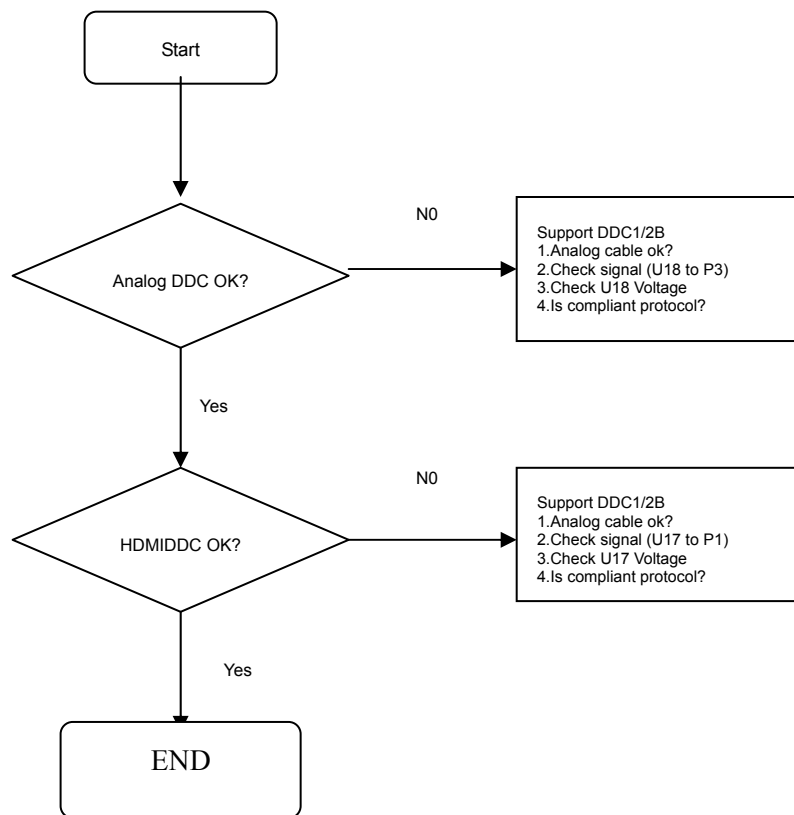
(HDMI) IS NOT DISPLAY CORRECTLY



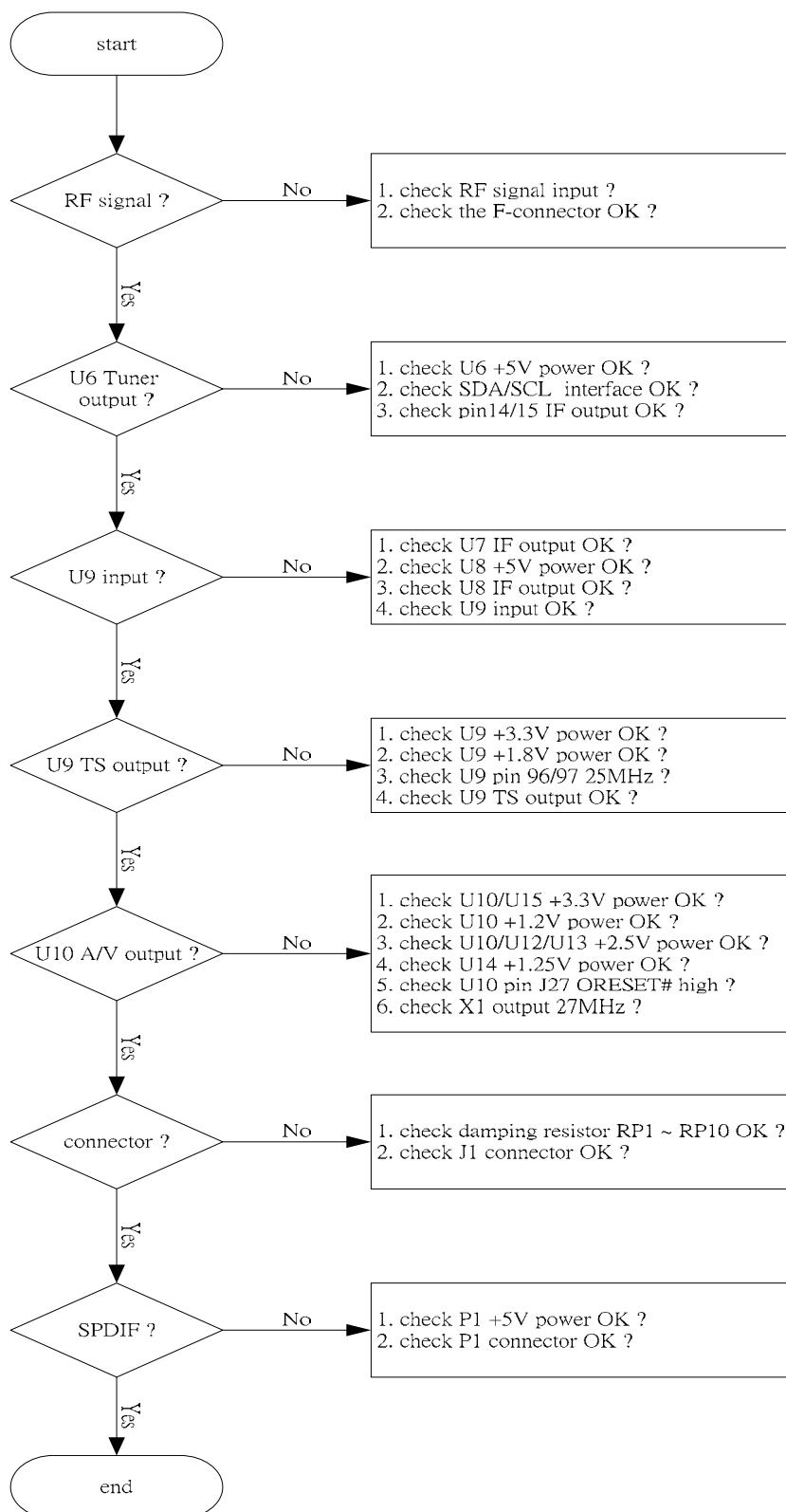
TROUBLE OF DC-DC CONVERTER



TROUBLE OF DDC READING



TROUBLE OF THE DTV

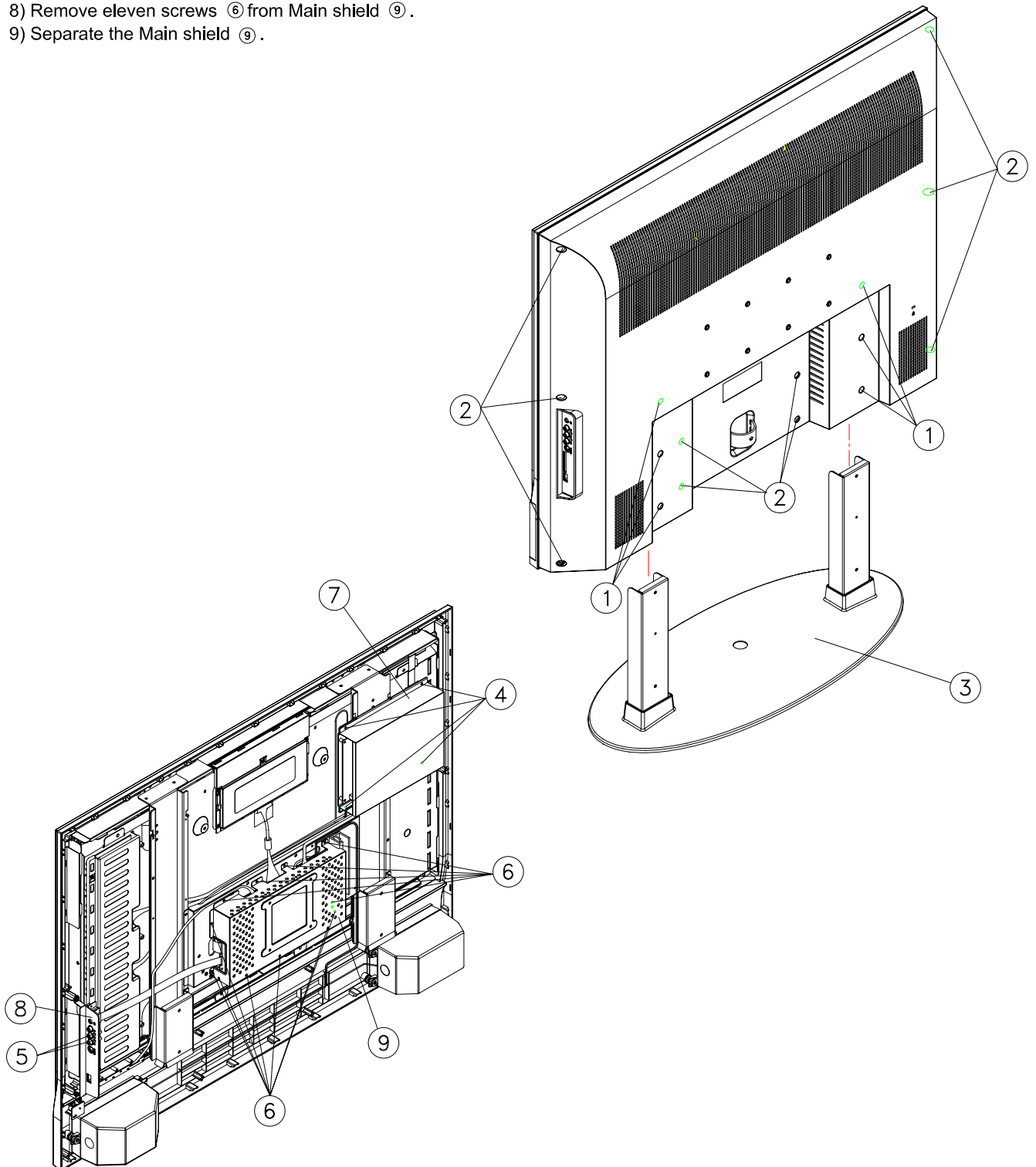


DISASSEMBLY INSTRUCTIONS

1. REAR COVER ASS'Y REMOVAL

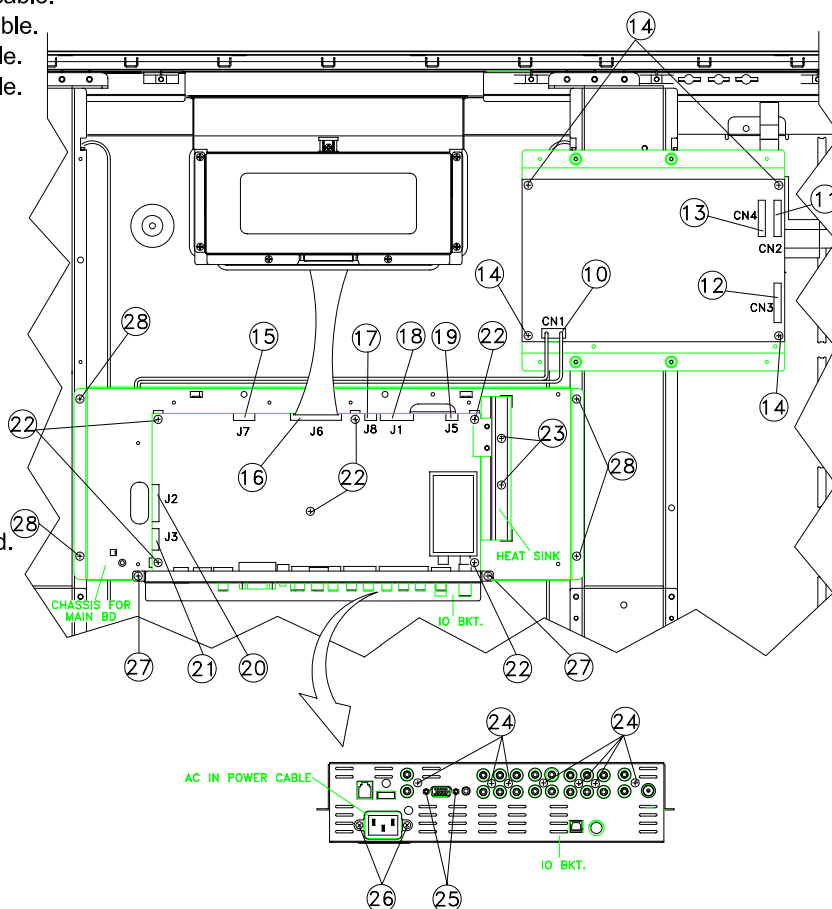
Note: Spread a mat underneath to avoid damaging the LCD surface.

- 1) Remove six screws ① from rear cover.
- 2) Separate the Bass Ass'y ③.
- 3) Remove ten screws ② from rear cover.
- 4) Separate the rear cover.
- 5) Remove four screws ④ and from Power shield ⑦.
- 6) Separate the Power shield ⑦.
- 7) Remove two screws ⑤ from card reader cover ⑧.
- 8) Remove eleven screws ⑥ from Main shield ⑨.
- 9) Separate the Main shield ⑨.



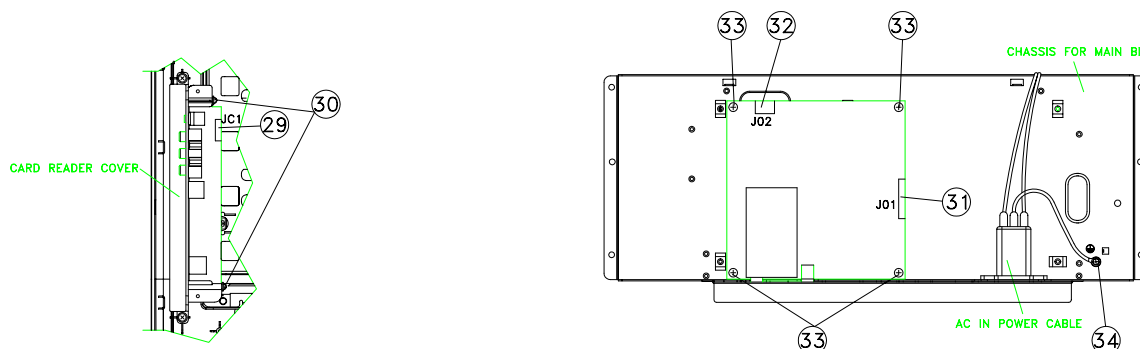
2. MAIN BD ASS'Y/POWER BD ASS'Y REMOVAL

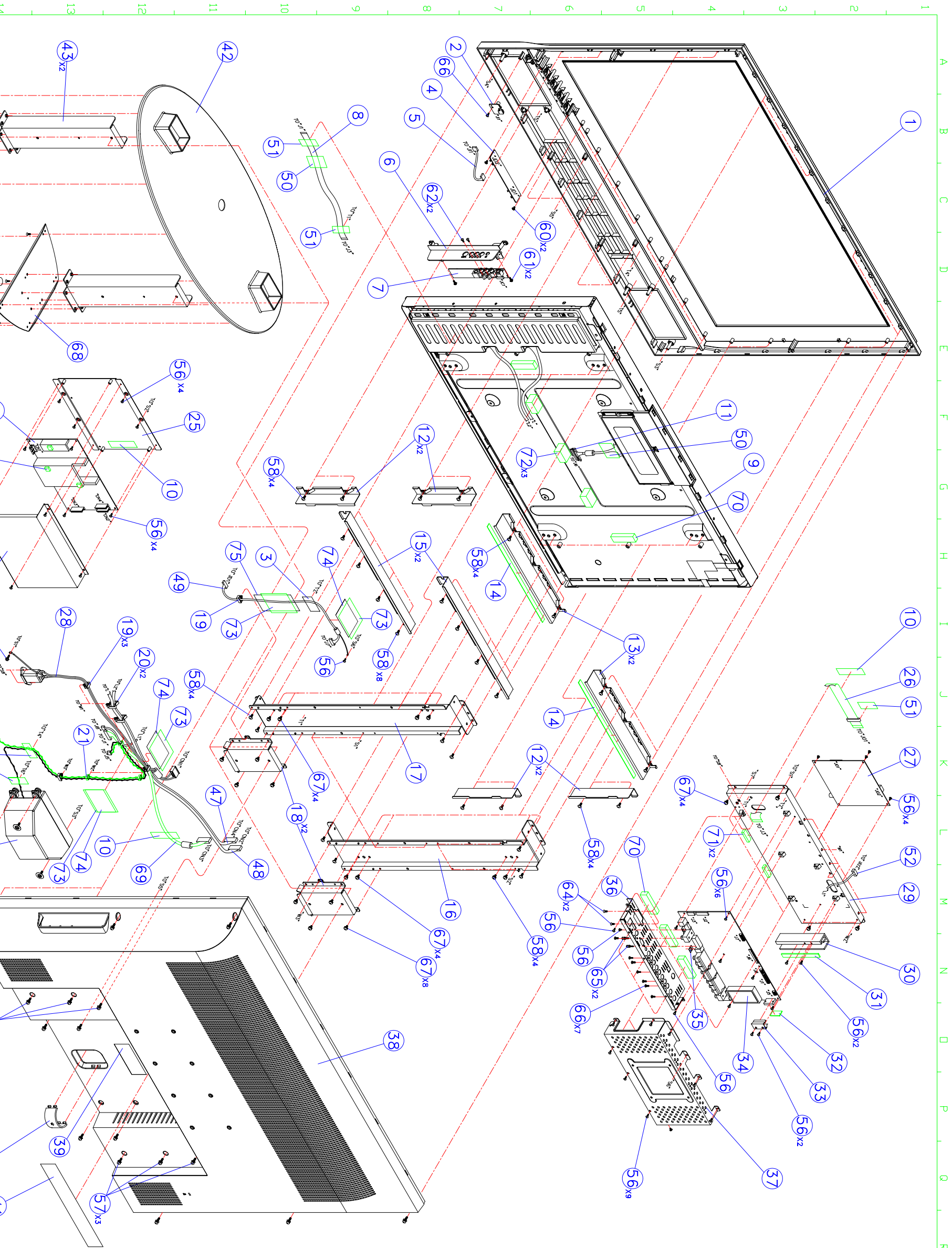
- 1) Remove the connector ⑮ (J7) of the display cable.
- 2) Remove the connector ⑯ (J6) of the LVDS signal cable.
- 3) Remove the connector ⑰ (J8) of the Video bd cable.
- 4) Remove the connector ⑱ (J1) of the Power bd cable.
- 5) Remove the connector ⑲ (J5) of the speaker cable.
- 6) Remove the connector ⑳ (J2) of the FCC 2 cable.
- 7) Remove the connector ㉑ (J3) of the FCC 1 cable.
- 8) Remove six screws ㉒ from Main BD Ass'y.
- 9) Remove two screws ㉓ from heat sink
- 10) Remove two screws ㉔ from IO BKT.
- 11) Remove two hexagon screws ㉕, two screws ㉖ and seven screws ㉗ from IO BKT.
- 12) Sparate the Main BD Ass'y and I O BKT.
- 13) Remove the connector ⑩ (CN1) of the Power cable.
- 14) Remove the connector ⑪ (CN2) ⑬ (CN4) of the lamp cable.
- 15) Remove the connector ⑫ (CN3) of the Power bd cable.
- 16) Remove four screws ⑭ from Power BD Ass'y.
- 17) Separate the Power BD Ass'y.
- 18) Remove four screws ㉘ from chassis for main bd.
- 19) Separate the chassis.



3. VIDEO BD ASS'Y/CONNECTOR BD ASS'Y REMOVAL

- 1) The chassis to reverse side.
- 2) Remove the connector ㉓ (J01) of the FCC 2 cable.
- 3) Remove the connector ㉔ (J02) of the Video cable.
- 4) Remove four screws ㉕ and one screw ㉖ from Video Bd Ass'y.
- 5) Separate the Video BD Ass'y and AC IN Power cable.
- 6) Remove the connector ㉗ (JC1) of the FCC 1 cable.
- 7) Remove two screws ㉘ from card reader cover.
- 8) Separate the Connector BD Ass'y.





ITEM	DESCRIPTION	QTY
1	BEZEL (VIZIO L37 HDTV) ASS'Y	1
2	LCD IR BD ASS'Y(VIZIO L37)	1
3	SHIELDING AL. TAPE (45.0*25.0)	1
4	LCD DISPLAY BD ASS'Y(VIZIO L32)	1
5	WH PH4P-PH4P 1061 #26 80mm	1
6	CARD READER COVER(VIZIO L37 HDTV)	1
7	LCD CONNECTOR BD ASS'Y(VIZIO L37 HDTV)	1
8	FFC 30P(0.5mm)305mm	1
9	LCD MODULE 37.0"TTT 1370XW01(V.1)(AUO)	1
10	ACETATE CLOTH TAPE(19*70mm)	5
11	WH P240430/F1-X30H 140mm CORE	1
12	PANEL HOLDER RL(VIZIO L37_HDTV AUO)	1
13	PANEL HOLDER TOP(VIZIO L37_HDTV AUO)	2
14	GASKET BLOCK(300.0L*10.0W*1.0H)	2
15	PANEL HOLDER BOTTOM(VIZIO L37_HDTV AUO)	2
16	PANEL BRACKET-R(TM-37V)	1
17	PANEL BRACKET-L(TM-37V)	1
18	BRT SUPPORT STAND(TM-37V)	2
19	WIRE SADDLE(CH-01P-N2W)(V.8)	-
20	WIRE SADDLE(CH-14)	2
21	WIRE SADDLE(CH-02)	-
22	SPEAKER 6ohm 10W 1020*620mm	1
23	POWER SHIELDING(TM-37V)	1
24	POWER BD ASS'Y 250W(0568D03)	1
25	POWER BRACKET(TM-37V)	1
26	FFC 50P(0.5mm) 180mm core	1
27	VIDEO BOX BD ASS'Y(L37HDTV10A (AUO)(S19011)	1
28	AC INLET+WHSP#617#22 500mm1015#18 75mm+CORE	1
29	CHASSIS FOR MAIN BD(TM-37V)	1
30	HEAT SINK(PD-423)	1
31	GASKET BLOCK(10.0W*2.0H*100.0Lmm)	1
32	HEATPAHT(25X14mm)	1
33	HEAT SINK FIX MTEAL(TM-30)	1
34	LCD MAIN BD ASS'Y(VIZIO L37_HDTV10A_AUO)	1
35	MAIN BD ASS'Y(VIZIO L37_HDTV10A)(AUO)(S19011)	1
36	GASKET BLOCK(12L*10W*2.5Hmm)HOLE 6#	1
37	O PLATE BRACKET(TM-37V)	1
38	SHIELDING FOR MAIN BD(TM-37V)	1
39	REAR COVER(VIZIO L37_HDTV)ASS'Y	1
40	B/C LBL VIZIO L37_HDTV10A(MTK)	1
41	WIRE CLIP (VIZIO C20L)	1
42	REAR PLATE VIZIO L32_HDTV10A(MTK)	1
43	BASE(VIZIO L37_HDTV)(ABS 94 SV.877C)	1
44	BASE BRACKET(TM-37V)	2
45	BASE FOOT(#18.0*1.51,PORON)	1
46	RUBBER PAD (L101004CRB)	8
47	WH A2543H12P-PH10P 1007 #24 850mm	1
48	WH A2543H12P-PH14P 1007 #24 850mm	1
49	WH PH12P-PH12P SHIELDING CABLE 470mm CORE	1
50	ACETATE CLOTH TAPE(35*45mm)	2
51	WH XHSP-PHSP 1007 #24 100mm	7
52	MAC.SCREW-MF M4.0*8.0L.NI	1
53	MAC.SCREW-MF M4.0*8.0L.NI	8
54	TAP SCREW-TF #3.0*6.0L.NI	8
55	TAP SCREW-TF #4.0*14.0L.BLK-NI	10
56	MAC.SCREW-MB M3.0*6.0L.NI	39
57	MAC.SCREW-MPSWT M4.0*14.0L.BLK-NI	6
58	TAP SCREW-TP #4.0*10.0L.NI	28
59	TAP SCREW-TRF #4.0*12.0L.NI	6
60	TAP SCREW-TRF #3.0*8.0L.NI	2
61	TAP SCREW-TRFV #3.0*10.0L.BLK-NI	2
62	TAP SCREW-TF #M3.0X8.0L.BLK-NI	2
63	MAC.SCREW-MPGW M4.0*8.0L.NI	1
64	SCREW BBC #5.0*12.0L.NI	2
65	MAC.SCREW-MHSHW #4-40*8.0L.NI	2
66	TAP SCREW-TB #3.0*8.0L.NI	8
67	MAC.SCREW-MPSWT M4.0*8.0L.NI	20
68	BASE BKT BOTTOM-(TM-37V)	1
69	WH A2543H13P-PH13P 1007 #24 470mm CORE	1
70	GASKET BLOCK(10*17*60)	-
71	GASKET BLOCK(5.5H*10.0W*30.0Lmm)	2
72	GASKET BLOCK(17*34*25mm)(77367)	3
73	ACETATE CLOTH TAPE(70*60mm)	-
74	SHIELDING AL. TAPE(50.0W*100.0L)	-
75	SHIELDING AL. TAPE(50.0W*100.0L)	-

VIZIO L37HDTV10A(478293)(AUO) 2637-8500-3143

VIZIO L37HDTV10A(400)(SUB011) 2637-8500-3143

REVISION: 1.0

DATE: 10/31/06

SCALE: Full Unit

UNLESS OTHERWISE NOTED

1/16" = 1/8"

1/32" = 1/16"

1/64" = 1/32"

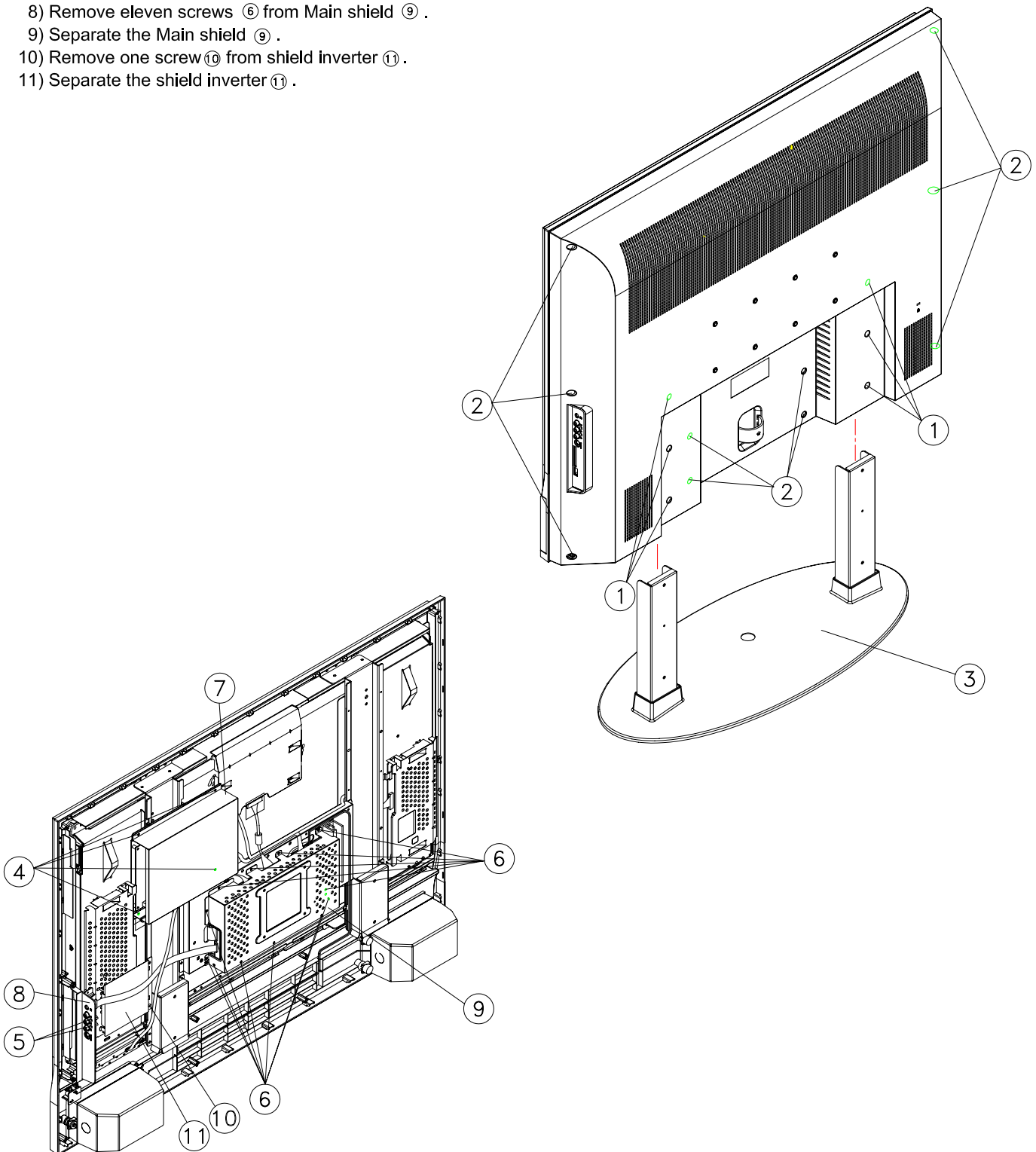
1/128" = 1/64"

1/256" = 1/128"

1. REAR COVER ASS'Y REMOVAL

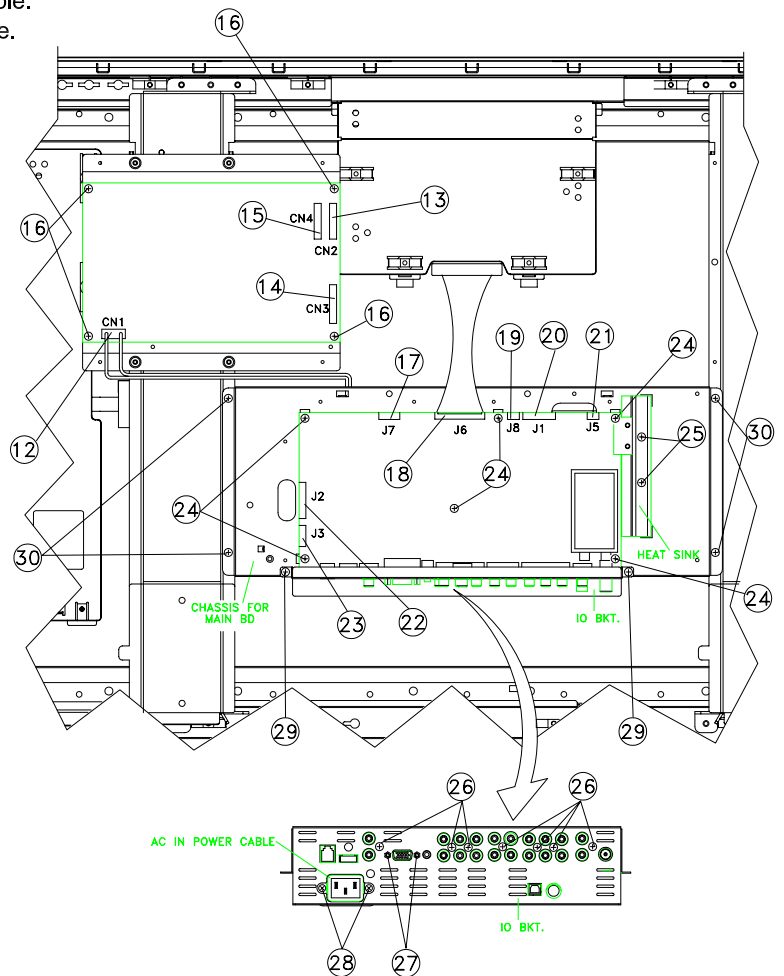
Note: Spread a mat underneath to avoid damaging the LCD surface.

- 1) Remove six screws ① from rear cover.
- 2) Separate the Bass Ass'y ③.
- 3) Remove ten screws ② from rear cover.
- 4) Separate the rear cover.
- 5) Remove four screws ④ and from Power shield ⑦.
- 6) Separate the Power shield ⑦.
- 7) Remove two screws ⑤ from card reader cover ⑧.
- 8) Remove eleven screws ⑥ from Main shield ⑨.
- 9) Separate the Main shield ⑨.
- 10) Remove one screw ⑩ from shield inverter ⑪.
- 11) Separate the shield inverter ⑪.



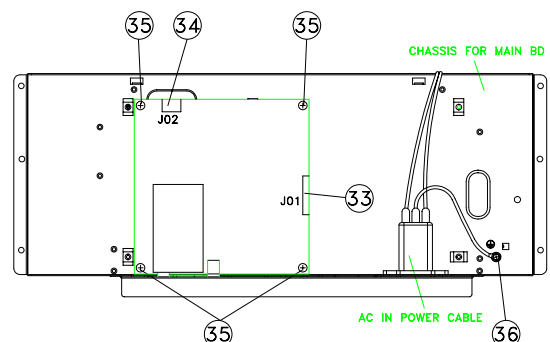
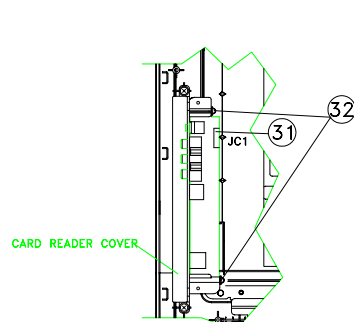
2. MAIN BD ASS'Y/POWER BD ASS'Y REMOVAL

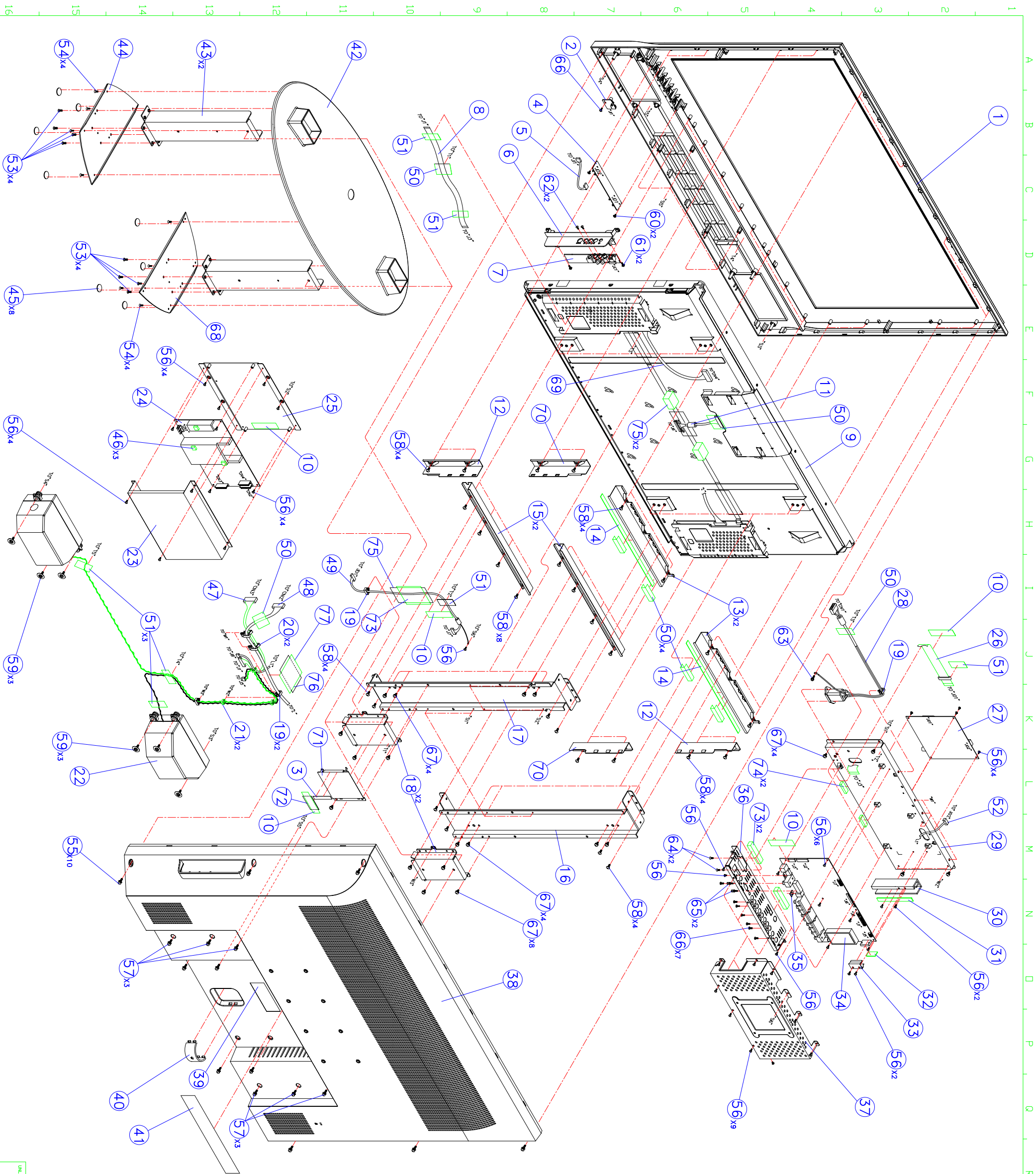
- 1) Remove the connector ⑰ (J7) of the display cable.
- 2) Remove the connector ⑱ (J6) of the LVDS signal cable.
- 3) Remove the connector ⑲ (J8) of the Video bd cable.
- 4) Remove the connector ⑳ (J1) of the Power bd cable.
- 5) Remove the connector ㉑ (J5) of the speaker cable.
- 6) Remove the connector ㉒ (J2) of the FCC 2 cable.
- 7) Remove the connector ㉓ (J3) of the FCC 1 cable.
- 8) Remove six screws ㉔ from Main BD Ass'y.
- 9) Remove two screws ㉕ from heat sink
- 10) Remove two screws ㉖ from IO BKT.
- 11) Remove two hexagon screws ㉗, two screws ㉘ and seven screws ㉙ from IO BKT.
- 12) Sparate the Main BD Ass'y and I O BKT.
- 13) Remove the connector ⑫ (CN1) of the Power cable.
- 14) Remove the connector ⑬ (CN2) ⑮ (CN4) of the lamp cable.
- 15) Remove the connector ⑭ (CN3) of the Power bd cable.
- 16) Remove four screws ⑯ from Power BD Ass'y.
- 17) Separate the Power BD Ass'y.
- 18) Remove four screws ㉚ from chassis for main bd.
- 19) Separate the chassis.



3. VIDEO BD ASS'Y/CONNECTOR BD ASS'Y REMOVAL

- 1) The chassis to reverse side.
- 2) Remove the connector ㉛ (J01) of the FCC 2 cable.
- 3) Remove the connector ㉜ (J02) of the Video cable.
- 4) Remove four screws ㉝ and one screw ㉞ from Video Bd Ass'y.
- 5) Separate the Video BD Ass'y and AC IN Power cable.
- 6) Remove the connector ㉟ (JC1) of the FCC 1 cable.
- 7) Remove two screws ㊱ from card reader cover.
- 8) Separate the Connector BD Ass'y.





ITEM	DESCRIPTION	QTY
1	BEZEL (VIZIO L37 HDTV ASS'Y	1
2	LCD IR BD ASS'Y(VIZIO L37)	1
3	PORON STRIP(50*10*0.5)	1
4	LCD DISPLAY BD ASS'Y(VIZIO L32)	1
5	WH PH4P-PH4P 1061*26 80mm	1
6	CARD READER COVER(VIZIO L37 HDTV)	1
7	FFC CONNECTOR BD ASS'Y(VIZIO L37 HDTV)	1
8	FFC 30P(0.5mm)305mm	1
9	LCD MODULE 37.0*TF1 LC370WX1-SL01(G)	1
10	ACETATE CLOTH TAPE(19*70mm)	-
11	WH P24030/-T1-X30H 140mm CORE	1
12	PANEL HOLDER RL(VIZIO L37 HDTV LGS101-B)	2
13	PANEL HOLDER TOP(VIZIO L37 HDTV LGS101)	2
14	GASKET BLOCK(300.0L*10.0W*1.0H)	-
15	PANEL HOLDER BOTTOM(TM-37V)	2
16	PANEL BRACKET-R(TM-37V)	1
17	PANEL BRACKET-L(TM-37V)	1
18	BKT SUPPORT STAND(TM-37V)	2
19	WIRE SADDLE(CH-01P)	-
20	WIRE SADDLE(CH-14)	-
21	WIRE SADDLE(CH-02)	2
22	SPEAKER 64mm 10W 1020*620mm	1
23	POWER SHIELDING(TM-37V)	1
24	POWER BD ASS'Y 250W(0569DD3) L-F	1
25	POWER BRACKET(TM-37V)	1
26	FFC 50P(0.5mm) 180mm CORE	1
27	VIDEO BOX BD ASS'Y(VIZIO L37 HDTV FOR ATSC)	1
28	AC INLET+VHBP1617#22 500mm101#18 75mm+CORE	1
29	CHASSIS FOR MAIN BD(TM-37V)	1
30	HEAT SINK(PD-42S)	1
31	GASKET BLOCK(10.0W*2.0H*100.0Lmm)	1
32	HEATPAD(25X14mm)	1
33	HEAT SINK FIX METAL(TM-30A)	1
34	LCD MAIN BD ASS'Y(VIZIO L37HDTV10A LG(H9C)	1
35	LCD MAIN BD ASS'Y L37 HDTV10A(G-SL01)(SLB011)	1
36	GASKET BLOCK(12L*1.0W*2.5Shmm)HOLE 6#	1
37	IO PLATE BRACKET(TM-37V)	1
38	SHIELDING FOR MAIN BD(TM-37V)	1
39	REAR COVER(VIZIO L37 HDTV)ASS'Y	1
40	B/C LBL VIZIO L37 HDTV10A(MTK)	1
41	WH CLIP (VIZIO C20L)(PC-TRANSPARENT/877C)	1
42	REAR PLATE VIZIO L32 HDTV10A(MTK)	1
43	BASE(VIZIO L37 HDTV)(ABS 94-SV.877C)	1
44	BASE BRACKET(TM-37V)	2
45	BASE BRACKET BOTTOM-R(TM-37V)	1
46	BASE FOOT(618.0*1.5L-PORON)	3
47	RUBBER PAD (L10100ACRB)	3
48	WH A2543H13P-PH13P 1007#24 280mm	1
49	WH A2543H12P-PH12P 1007#24 550mm	1
50	WH PH12P-PH12P SHIELDING CABLE 470mm CORE	1
51	ACETATE CLOTH TAPE(35*45mm)	4
52	WH XH5P-PH5P 1007#24 100mm	-
53	MAG. SCREW-MF M4.0*8.0L.NI	1
54	TAP.SCREW-TF #3.0*6.0L.NI	8
55	TAP.SCREW-TF #4.0*14.0L.BLK-NI	10
56	MAG.SCREW-MB M3.0*6.0L.NI	39
57	MAG.SCREW-MPSWF M4.0*14.0L. BLK-NI	28
58	TAP.SCREW-TF #4.0*10.0L.NI	2
59	TAP.SCREW-TRF #4.0*12.0L.NI	2
60	TAP.SCREW-TRF #3.0*9.0L.NI	6
61	TAP. SCREW-TRFW #3.0*10.0L.BLK-NI	2
62	TAP.SCREW-TF #M3.0X8.0L.BLK-NI	2
63	MAG.SCREW-MPGW M4.0*8.0L.NI	1
64	SCREW BBC #5.0*12.0L.NI	2
65	MAG.SCREW-MHSW #4-40*8.0L.NI	2
66	TAP.SCREW-TB #3.0*8.0L.NI	8
67	MAG.SCREW-MPSWF M4.0*8.0L.NI	20
68	BASE BKT BOTTOM-L(TM-37V)	1
69	WH A2543H12P-PH12P 1007#24 300mm	1
70	PANEL HOLDER RL(VIZIO L37 HDTV LGS101-A)	1
71	INVERTER SHIELD BKT(VIZIO L37 HDTV LGS101)	2
72	SHIELDING AL. TAPE (45*0*25.0)	-
73	GASKET BLOCK (10.0W*1.30H*60.0L)	-
74	GASKET BLOCK(5.5H*1.0W*30.0Lmm)	2
75	GASKET BLOCK(17*34*25mm)(773Gf)	-
76	SHIELDING AL. TAPE(70.0*50.0)	1
77	ACETATE CLOTH TAPE(70*60mm)	-
78	SHIELDING AL. TAPE(50.0W*100.0L)	-